http://www.tutorialspoint.com/ibatis/ibatis update operation.htm

Last chapter has shown how to perform READ operation on a table using iBATIS. This chapter would show you how you can update records in a table using iBATIS.

We have following EMPLOYEE table in MySQL:

```
CREATE TABLE EMPLOYEE (
   id INT NOT NULL auto_increment,
   first_name VARCHAR(20) default NULL,
   last_name VARCHAR(20) default NULL,
   salary   INT default NULL,
   PRIMARY KEY (id)
);
```

This table is having only one record as follows:

Employee POJO Class:

To perform udpate operation you would need to modify Employee.java file as follows:

```
public class Employee {
 private int id;
  private String first_name;
  private String last_name;
  private int salary;
  /* Define constructors for the Employee class. */
 public Employee() {}
  public Employee (String fname, String lname, int salary) {
    this.first_name = fname;
    this.last_name = lname;
    this.salary = salary;
 /* Here are the required method definitions */
  public int getId() {
    return id;
 public void setId(int id) {
    this.id = id;
  public String getFirstName() {
   return first_name;
  public void setFirstName(String fname) {
    this.first_name = fname;
  public String getLastName() {
    return last name;
  public void setlastName(String lname) {
    this.last_name = lname;
```

```
public int getSalary() {
    return salary;
}
public void setSalary(int salary) {
    this.salary = salary;
}
} /* End of Employee */
```

Employee.xml File:

To define SQL mapping statement using iBATIS, we would add <update> tag in Employee.xml file and inside this tag definition we would define an "id" which will be used in IbatisUpdate.java file for executing SQL UPDATE query on database.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE sqlMap
PUBLIC "-//ibatis.apache.org//DTD SQL Map 2.0//EN"
"http://ibatis.apache.org/dtd/sql-map-2.dtd">
<sqlMap namespace="Employee">
<insert >
  INSERT INTO EMPLOYEE(first_name, last_name, salary)
  values (#first_name#, #last_name#, #salary#)
   <selectKey resultClass="int" keyProperty="id">
      select last_insert_id() as id
   </selectKey>
</insert>
<select >
  SELECT * FROM EMPLOYEE
</select>
<update >
  UPDATE EMPLOYEE
   SET
         first_name = #first_name#
  WHERE id = #id#
</update>
</sqlMap>
```

IbatisUpdate.java File:

This file would have application level logic to update records into the Employee table:

```
import com.ibatis.common.resources.Resources;
import com.ibatis.sqlmap.client.SqlMapClient;
import com.ibatis.sqlmap.client.SqlMapClientBuilder;
import java.io.*;
import java.sql.SQLException;
import java.util.*;
public class IbatisUpdate{
 public static void main(String[] args)
   throws IOException, SQLException{
  Reader rd = Resources.getResourceAsReader("SqlMapConfig.xml");
  SqlMapClient smc = SqlMapClientBuilder.buildSqlMapClient(rd);
   /* This would update one record in Employee table. */
  System.out.println("Going to update record....");
  Employee rec = new Employee();
  rec.setId(1);
  rec.setFirstName( "Roma");
  smc.update("Employee.update", rec );
  System.out.println("Record updated Successfully ");
  System.out.println("Going to read records....");
```

Compilation and Run:

Here are the steps to compile and run the above mentioned software. Make sure you have set PATH and CLASSPATH appropriately before proceeding for the compilation and execution.

- Create Employee.xml as shown above.
- Create Employee.java as shown above and compile it.
- Create IbatisUpdate.java as shown above and compile it.
- Execute IbatisUpdate binary to run the program.

You would get following result, and a record would be updated in EMPLOYEE table and later same record would be read from the EMPLOYEE table.

```
Going to update record....

Record updated Successfully
Going to read records....

1 Roma Ali 5000
Records Read Successfully
```